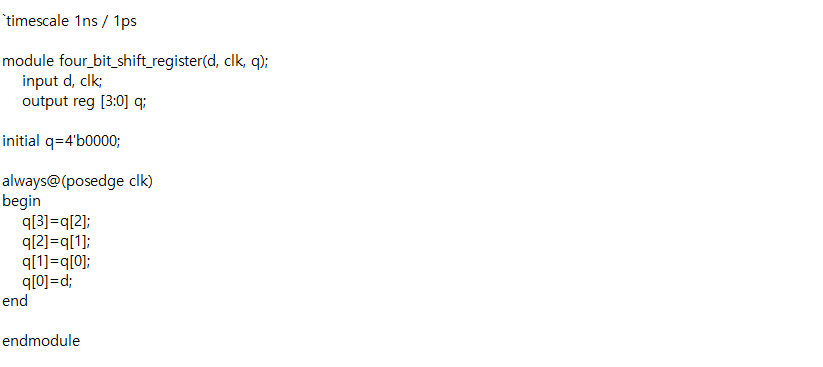
13주차 결과보고서

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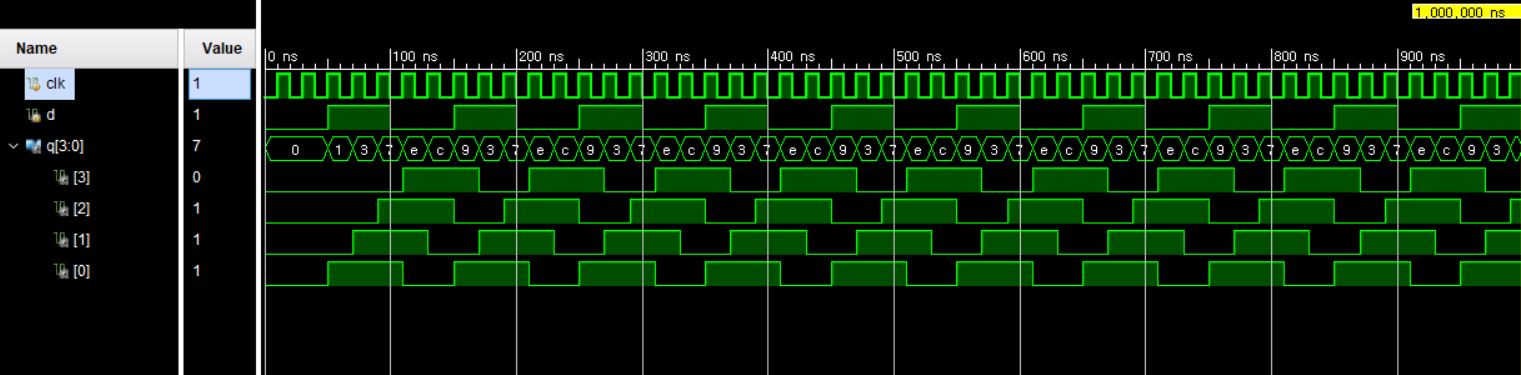
1. 4-bit shift register의 결과 및 simulation 과정에 대해서 설명하시오(verilog source, 출력 예시, 과정을 상세히 적을 것).

4개의 플립플롭이 직렬로 연결되어 clk이 바뀔 때마다 한 플립플롭의 출력이 다음 플립플롭의 입력으로 들어가게 되는 4-bit shift register를 구현하기 위해 다음 <Figure 1>과 같이 Verilog 코딩하였습니다.



<Figure 1> four\_bit\_shift\_register.v

Test bench를 만들어 <Figure 1>의 코드가 4-bit shift register처럼 제대로 동작하는지를 확인하면 다음 <Figure 2>와 같습니다.



<Figure 2> 4-bit shift register의 simulation 결과

<Figure 1>의 코드에서 초기의 모든 플립플롭의 출력을 0으로 설정하였기 때문에 clk의 첫 상승 에지 이전부터 모든 플립플롭의 출력이 0인 것을 확인할 수 있습니다. clk의 상승 에지에서 d가 1일 때, 첫 번째 플립플롭의 출력인 q[0]가 1이 되고, 다음 clk의 상승 에지에서 첫 번째 플립플롭의 출력이 두 번째 플립플롭의 출력이 되므로 q[1]도 1이 되고, 그 다음 clk의 상승 에지에서는 두 번째 플립플롭의 출력이 세 번째 플립플롭의 출력이 되므로 q[2]가 1이 되고, 그 다음 clk의 상승 에지에서도 세 번째 플립플롭의 출력이 네 번째 플립플롭의 출력이 되므로 q[3]가 1이 됩니다. d가 0이 되고 clk의 상승 에지가 되면 첫 번째 플립플롭의 출력 q[0]이 0이 되고 그 clk의 상승 에지부터는 이전 플립플롭의 출력 변화가 다음 플립플롭의 출력 변화로 이어져 위의 <Figure 2>의 계단 모양과 같이 나타나게 됩니다. 위의 simulation 결과를 output table로 작성하면 다음 <Table 1>과 같습니다.

<Table 1> 4-bit shift register의 output table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Clock  transition | input | output | | | |
| d | Q[0] | Q[1] | Q[2] | Q[3] |
| 1 | 1 | 1 | 0 | 0 | 0 |
| 2 | 1 | 1 | 1 | 0 | 0 |
| 3 | 1 | 1 | 1 | 1 | 0 |
| 4 | 1 | 1 | 1 | 1 | 1 |
| 5 | 0 | 0 | 1 | 1 | 1 |
| 6 | 0 | 0 | 0 | 1 | 1 |
| 7 | 0 | 0 | 0 | 0 | 1 |
| 8 | 0 | 0 | 0 | 0 | 0 |

FPGA의 SW16을 d로, SW15를 clk으로, LD16을 q[0], LD15를 q[1], LD14를 q[2], LD13을 q[3]으로 설정하여 연결하면 <Figure 1>의 4-bit shift register의 동작을 확인할 수 있습니다. 다음 <Figure 3>은 FPGA를 통해 확인한 4-bit shift register의 동작입니다.

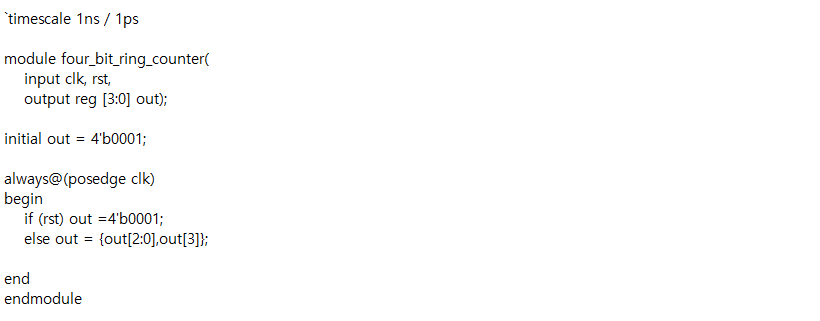
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<Figure 3> FPGA를 통해 확인한 4-bit shift register의 동작

첫 번째 사진은 d가 1이고, clk이 아직 상승 에지가 한 번도 되지 않은 상태이므로 모든 플립플롭의 출력이 0이고, 두 번째 사진부터 네 번째 사진까지는 d가 1이고, clk이 상승 에지가 될 때마다 바뀐 출력의 모습을 나타낸 사진으로, 처음엔 첫 번째 플립플롭의 출력만이 1이다가 다음 플립플롭으로 하나씩 전이되어 모든 플립플롭의 출력이 1이 되는 것을 보여줍니다. 다섯 번째 사진부터 아홉 번째 사진까지는 d가 0이고 clk이 상승 에지가 될 때마다 바뀐 출력의 모습을 나타낸 사진으로, 마찬가지로 처음엔 첫 번째 플립플롭의 출력만이 0이다가 다음 플립플롭으로 하나씩 전이되어 모든 플립플롭의 출력이 0이 되는 것을 보여줍니다. 열 번째 사진은 아홉 번째 상태에서 다시 d를 1로 설정하고 clk을 1로 바꿔준 상태에서 찍은 사진으로 두 번째 사진과 동일하다는 것을 알 수 있습니다.

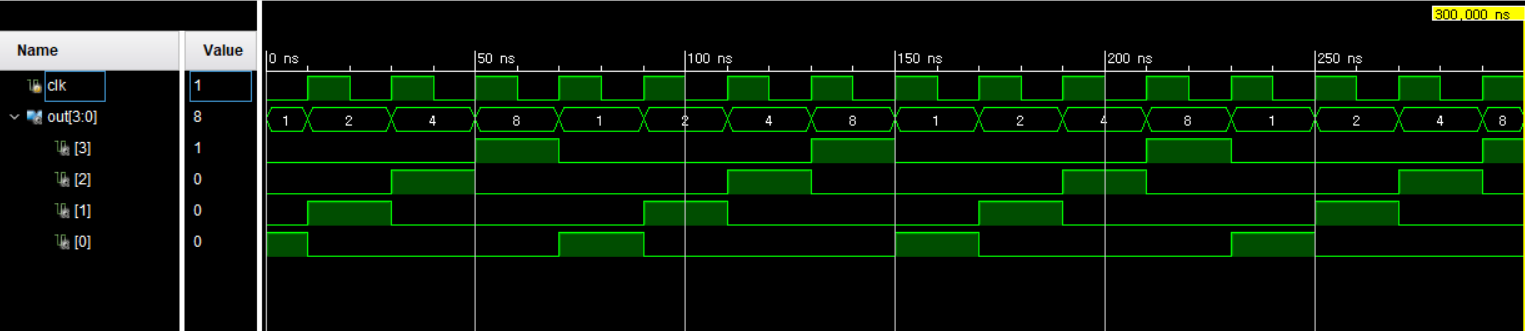
1. 4-bit ring counter의 결과 및 simulation 과정에 대해서 설명하시오(verilog source, 출력 예시, 과정을 상세히 적을 것).

4개의 플립플롭이 직렬로 연결되어 첫 번째 플립플롭의 출력이 1이다가 clk이 바뀔 때마다 그다음 플립플롭의 출력이 1이 되게하는 4-bit ring counter를 구현하기 위해 다음 <Figure 4>과 같이 Verilog 코딩하였습니다.



<Figure 4> four\_bit\_ring\_counter.v

Test bench를 만들어 <Figure 4>의 코드가 4-bit ring counter처럼 제대로 동작하는지를 확인하면 다음 <Figure 5>와 같습니다.



<Figure 5> 4-bit ring counter의 simulation 결과

<Figure 4>의 코드에서 초기의 모든 플립플롭의 출력 중 첫 번째 플립플롭의 출력만을 1로 설정하였기 때문에 clk의 첫 상승 에지 이전부터 플립플롭의 출력이 0001인 것을 확인할 수 있습니다. clk의 상승 에지마다 out[3]out[2]out[1]은 out[2:0]이 되고, out[0]은 out[3]이 됩니다. 따라서, clk의 상승 에지에서 첫 번째 플립플롭의 출력이 0이 되고, 두 번째 플립플롭의 출력이 1이 되며 다음 clk의 상승 에지에서 두 번째 플립플롭의 출력이 0이 되고 세 번째 플립플롭의 출력이 1이 되며, 또 그 다음 clk의 상승 에지에서는 세 번째 플립플롭의 출력이 0이 되고 네 번째 플립플롭의 출력이 1이 됩니다. 이처럼 플립플롭의 번호를 0, 1, 2, 3이라고 하면 0, 1, 2, 3, 0, 1, 2, 3,…순서대로 돌아가며 출력이 1이 되다는 것을 확인할 수 있습니다. 위의 simulation 결과를 output table로 작성하면 다음 <Table 2>과 같습니다.

<Table 2> 4-bit ring counter의 output table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Clock  transition | output | | | |
| out[0] | out[1] | out[2] | out[3] |
| initial state | 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 2 | 0 | 0 | 1 | 0 |
| 3 | 0 | 0 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 |
| 5 | 0 | 1 | 0 | 0 |
| 6 | 0 | 0 | 1 | 0 |
| 7 | 0 | 0 | 0 | 1 |

FPGA의 SW9를 clk으로, LD10을 out[0], LD9를 out[1], LD8를 out[2], LD7을 out[3]으로 설정하여 연결하면 <Figure 4>의 4-bit shift register의 동작을 확인할 수 있습니다. 다음 <Figure 6>은 FPGA를 통해 확인한 4-bit ring counter의 동작입니다.

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<Figure 6> FPGA를 통해 확인한 4-bit ring counter의 동작

첫 번째 사진은 clk이 아직 상승 에지가 한 번도 되지 않은 상태이므로 모든 플립플롭의 출력 중첫 번째 플립플롭의 출력만이 1이고, 두 번째 사진부터 clk이 상승 에지가 될 때마다 바뀐 출력의 모습을 나타낸 사진으로, 이로부터 두 번째 플립플롭, 세 번째 플립플롭, 네 번째 플립플롭, 다시 첫 번째 플립플롭으로 1의 출력이 이동하는 것을 확인할 수 있습니다.

1. 4-bit updown counter의 결과 및 simulation 과정에 대해서 설명하시오(verilog source, 출력 예시, 과정을 상세히 적을 것).

텍스트이(가) 표시된 사진

자동 생성된 설명4개의 플립플롭이 직렬로 연결되어 입력 updown이 0일 때는 하향식 카운터로 동작하고, 입력updown이 1일 때는 상향식 카운터로 동작하는 4-bit updown counter를 구현하기 위해 다음 <Figure 7>과 같이 Verilog 코딩하였습니다.

<Figure 7> four\_bit\_updown\_counter.v

Test bench를 만들어 <Figure 7>의 코드가 4-bit updown counter처럼 제대로 동작하는지를 확인하면 다음 <Figure 8>와 같습니다.

![텍스트, 전자기기이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOq5gOuCmO2YhAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjYAAJKSAAIAAAADNjYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ij6pDuw+o0+7Oo/tWy/57j8jR/atl/z3H5GuXoo+qQ7sPqNPuzqP7Vsv+e4/I0f2rZf89x+Rrl6KPqkO7D6jT7s6j+1bL/nuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/57j8jR/atl/z3H5GuXoo+qQ7sPqNPuzqP7Vsv+e4/I0f2rZf89x+Rrl6KPqkO7D6jT7s9C03UrRvCOuMJhtV7bJwePmasX+1bL/nuPyNV9J/5EfxF/10tP8A0J65+m8LB9RvBwfVnUf2rZf89x+Ro/tWy/57j8jXL0UvqkO7F9Rp92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FH1SHdh9Rp92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FH1SHdh9Rp92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FH1SHdh9Rp92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FH1SHdh9Rp92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FH1SHdh9Rp92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FH1SHdh9Rp92eheJtStEk0vdMBu0y3I4PTbWL/AGrZf89x+Rqv4u/1uj/9gi2/9Brn6bwsG73G8HBu92dR/atl/wA9x+Ro/tWy/wCe4/I1y9FL6pDuxfUafdnUf2rZf89x+Ro/tWy/57j8jXL0UfVId2H1Gn3Z1H9q2X/PcfkaP7Vsv+e4/I1y9FH1SHdh9Rp92dR/atl/z3H5Gj+1bL/nuPyNcvRR9Uh3YfUafdnUf2rZf89x+Ro/tWy/57j8jXL0UfVId2H1Gn3Z1H9q2X/PcfkaP7Vsv+e4/I1y9FH1SHdh9Rp92dR/atl/z3H5GrelanZtrNkBOCTcRgcH+8K4yrui/wDIf0//AK+o/wD0IU/qkO7D6lTXVnVa9qdmviTUlacAi7lBGD/fNUP7Vsv+e4/I1leJf+Rs1b/r9m/9DNZlDwsG92DwVNu92dR/atl/z3H5Gj+1bL/nuPyNcvRS+qQ7sPqNPuzqP7Vsv+e4/I0f2rZf89x+Rrl6KPqkO7D6jT7s6j+1bL/nuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/57j8jR/atl/z3H5GuXoo+qQ7sPqNPuzqP7Vsv+e4/I0f2rZf89x+Rrl6KPqkO7D6jT7s6j+1bL/nuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/57j8jW74S1G0k1K8CTAkaddE8HoImrzquj8E/wDIWv8A/sFXn/ohqawsE73GsHBO92S/2rZf89x+Ro/tWy/57j8jXL0UvqkO7F9Rp92dR/atl/z3H5Gj+1bL/nuPyNcvRR9Uh3YfUafdnUf2rZf89x+Ro/tWy/57j8jXL0UfVId2H1Gn3Z1H9q2X/PcfkaP7Vsv+e4/I1y9FH1SHdh9Rp92dR/atl/z3H5Gj+1bL/nuPyNcvRR9Uh3YfUafdnUf2rZf89x+Ro/tWy/57j8jXL0UfVId2H1Gn3Z1H9q2X/PcfkaP7Vsv+e4/I1y9FH1SHdh9Rp92dR/atl/z3H5Gt2+1G0HgbSHMw2td3IBwecCOvOq6PUf8AknOh/wDX7d/yhprCwXUawcF1ZL/atl/z3H5Gj+1bL/nuPyNcvRS+qQ7sX1Gn3Z1H9q2X/PcfkaP7Vsv+e4/I1y9FH1SHdh9Rp92dR/atl/z3H5Gj+1bL/nuPyNcvRR9Uh3YfUafdnUf2rZf89x+Ro/tWy/57j8jXL0UfVId2H1Gn3Z1H9q2X/PcfkaP7Vsv+e4/I1y9FH1SHdh9Rp92dR/atl/z3H5Gj+1bL/nuPyNcvRR9Uh3YfUafdnUf2rZf89x+Ro/tWy/57j8jXL0UfVId2H1Gn3Z1H9q2X/Pcfka3fFuo2kepWYeYAnTrUjg9DEtedV0fjb/kLWH/YKs//AEQtP6rC1rj+pwta7Jf7Vsv+e4/I0f2rZf8APcfka5eil9Uh3YvqNPuzqP7Vsv8AnuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/wCe4/I0f2rZf89x+Rrl6KPqkO7D6jT7s6j+1bL/AJ7j8jR/atl/z3H5GuXoo+qQ7sPqNPuzqP7Vsv8AnuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/wCe4/I0f2rZf89x+Rrl6KPqkO7D6jT7s6j+1bL/AJ7j8jR/atl/z3H5GuXoo+qQ7sPqNPuzt9B1OzbxJpqrOCTdxADB/vio9V1OzXWb0GcAi4kB4P8AeNc/4a/5GzSf+v2H/wBDFQ61/wAh/UP+vqT/ANCNP6rC1rj+pwta7Nv+1bL/AJ7j8jR/atl/z3H5GuXopfVId2L6jT7s6j+1bL/nuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/57j8jR/atl/z3H5GuXoo+qQ7sPqNPuzqP7Vsv+e4/I0f2rZf89x+Rrl6KPqkO7D6jT7s6j+1bL/nuPyNH9q2X/Pcfka5eij6pDuw+o0+7Oo/tWy/57j8jR/atl/z3H5GuXoo+qQ7sPqNPuzqP7Vsv+e4/I0f2rZf89x+Rrl6KPqkO7D6jT7s+sPgDcRXPgS7eF96i/cZx/sJRVD9mr/knN9/2En/APRcdFfieexUczrRXc9/DwUKUYo+XqKKK/eDzgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA9/wD2Tf8AkavEH/XlH/6HXm3xl/5LJ4m/6/T/ACFek/sm/wDI1eIP+vKP/wBDrzb4y/8AJZPE3/X6f5CgDiaKKKACiiigAooooAKKKKAPrbwJ/wAmhXP/AGC7/wD9Clr5s1H/AJJzof8A1+3f8oa+k/An/JoVz/2C7/8A9Clr5s1H/knOh/8AX7d/yhoA5yiiigAooooAKKKKACiiigAooooAKKKKACiiigCxp/8AyErX/rsn8xWn40/5HrXP+v8Am/8AQzWZp/8AyErX/rsn8xWn40/5HrXP+v8Am/8AQzQBiUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAdH4E/5Gc/9eV3/AOk8lc5XR+BP+RnP/Xld/wDpPJXOUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHQaT/AMiP4i/66Wn/AKE9c/XQaT/yI/iL/rpaf+hPXP0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHQeLv8AW6P/ANgi2/8AQa5+ug8Xf63R/wDsEW3/AKDXP0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFXdF/5D+n/wDX1H/6EKpVd0X/AJD+n/8AX1H/AOhCgCbxL/yNmrf9fs3/AKGazK0/Ev8AyNmrf9fs3/oZrMoAKKKKACiiigAooooAKKKKACiiigAooooAK6PwT/yFr/8A7BV5/wCiGrnK6PwT/wAha/8A+wVef+iGoA5yiiigAooooAKKKKACiiigAooooAKKKKACiiigAro9R/5Jzof/AF+3f8oa5yuj1H/knOh/9ft3/KGgDnKKKKACiiigAooooAKKKKACiiigAooooAKKKKACuj8bf8haw/7BVn/6IWucro/G3/IWsP8AsFWf/ohaAOcooooAKKKKACiiigAooooAKKKKACiiigAooooA0/DX/I2aT/1+w/8AoYqHWv8AkP6h/wBfUn/oRqbw1/yNmk/9fsP/AKGKh1r/AJD+of8AX1J/6EaAKVFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH1D+zV/wAk5vv+wk//AKLjoo/Zq/5Jzff9hJ//AEXHRX4Tn/8AyNK/qepS+BHy9RRRX7seWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHv/wCyb/yNXiD/AK8o/wD0OvNvjL/yWTxN/wBfp/kKKKAOJooooAKKKKACiiigAooooA+tvAn/ACaFc/8AYLv/AP0KWvmzUf8AknOh/wDX7d/yhoooA5yiiigAooooAKKKKACiiigAooooAKKKKACiiigCxp//ACErX/rsn8xWn40/5HrXP+v+b/0M0UUAYlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHR+BP+RnP/AF5Xf/pPJXOUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHQaT/wAiP4i/66Wn/oT1z9FFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB0Hi7/AFuj/wDYItv/AEGufoooAKKKKACiiigAooooAKKKKACiiigAooooAKu6L/yH9P8A+vqP/wBCFFFAE3iX/kbNW/6/Zv8A0M1mUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFdH4J/5C1/8A9gq8/wDRDUUUAc5RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV0eo/wDJOdD/AOv27/lDRRQBzlFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXR+Nv+QtYf9gqz/8ARC0UUAc5RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBp+Gv+Rs0n/r9h/9DFQ61/yH9Q/6+pP/AEI0UUAUqKKKACiiigAooooAKKKKACiiigAooooAKKKKAPqH9mr/AJJzff8AYSf/ANFx0UUV+E5//wAjSv6nqUvgR//Z)

<Figure 8> 4-bit ring counter의 simulation 결과

<Figure 7>에서 rst이 1이면 상승 에지에서 모든 플립플롭의 출력을 0으로 설정하였는데, 실제 simulation 결과를 확인하니 모든 플립플롭의 출력이 알 수 없음을 의미하는 X이다가 rst이 1이고, 상승 에지인 구간에서 전부 0으로 설정되는 것을 확인할 수 있었습니다. 또한 updown이 1, rst이 0일 때 상승 에지가 반복될 때 플립플롭은 0부터 15까지의 숫자를 하나씩 출력하는 것을 확인할 수 있고, updown을 0으로 전환한 후 상승 에지가 반복될 때는 8부터 1씩 감소하여 8, 7, 6, 5,…,0, 15, 14,…,8, 7,…을 반복하는 것을 확인할 수 있었습니다. 위의 simulation 결과를 output table로 작성하면 다음 <Table 3>과 같습니다.

<Table 3> 4-bit ring counter의 output table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Clock  transition | input | output | | | | |
| updown | out[0] | out[1] | out[2] | out[3] | display |
| 1 | 1 | 0 | 0 | 0 | 0 | U |
| 2 | 1 | 0 | 0 | 0 | 1 | U |
| 3 | 1 | 0 | 0 | 1 | 0 | U |
| 4 | 1 | 0 | 0 | 1 | 1 | U |
| 5 | 1 | 0 | 1 | 0 | 0 | U |
| 6 | 1 | 0 | 1 | 0 | 1 | U |
| 7 | 1 | 0 | 1 | 1 | 0 | U |
| 8 | 1 | 0 | 1 | 1 | 1 | U |
| 9 | 0 | 0 | 1 | 1 | 0 | d |
| 10 | 0 | 0 | 1 | 0 | 1 | d |
| 11 | 0 | 0 | 1 | 0 | 0 | d |
| 12 | 0 | 0 | 0 | 1 | 1 | d |
| 13 | 0 | 0 | 0 | 1 | 0 | d |
| 14 | 0 | 0 | 0 | 0 | 1 | d |
| 15 | 0 | 0 | 0 | 0 | 0 | d |
| 16 | 0 | 1 | 1 | 1 | 1 | d |
| 17 | 0 | 1 | 1 | 1 | 0 | d |
| 18 | 0 | 1 | 1 | 0 | 1 | d |
| 19 | 0 | 1 | 1 | 0 | 0 | d |
| 20 | 0 | 1 | 0 | 1 | 1 | d |
| 21 | 0 | 1 | 0 | 1 | 0 | d |
| 22 | 0 | 1 | 0 | 0 | 1 | d |
| 23 | 0 | 1 | 0 | 0 | 0 | d |
| 24 | 0 | 0 | 1 | 1 | 1 | d |
| 25 | 0 | 0 | 1 | 1 | 0 | d |
| 24 | 0 | 0 | 1 | 0 | 1 | d |

FPGA의 SW14을 clk로, SW15를 rst로, SW16을 updown으로, LD4을 out[0], LD3를 out[1], LD2를 out[2], LD1을 out[3]으로 설정하여 연결하면 <Figure 9>와 <Figure 10>의 4-bit updown counter의 동작을 확인할 수 있습니다. 다음 <Figure 9>와 <Figure 10>은 FPGA를 통해 확인한 4-bit updown counter의 동작입니다.

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<Figure 9> FPGA를 통해 확인한 4-bit down counter의 동작

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<Figure 10> FPGA를 통해 확인한 4-bit up counter의 동작

위의 <Figure 9>는 4-bit updown counter의 updown을 1로 만들어서 up counter로 동작하게 한 후, clk을 1과 0으로 바꿔가며 찍은 사진입니다. 보다시피 0000, 0001, 0010, 0011, 0100, 0101, 0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111, 0000을 반복하며 clk의 상승 에지에서 0부터 15까지의 수를 하나씩 출력하는 모습을 확인할 수 있습니다. 아래 <Figure 10>은 4-bit updown counter의 updown을 0로 만들어서 down counter로 동작하게 한 후, clk을 1과 0으로 바꿔가며 찍은 사진입니다. 보다시피 1111, 1110, 1101, 1100, 1011, 1010, 1001, 1000, 0111, 0110, 0101, 0100, 0011, 0010, 0001, 0000, 1111을 반복하며 clk의 상승 에지에서 15부터 0까지의 수를 하나씩 출력하는 모습을 확인할 수 있습니다.

1. 결과 검토 및 논의 사항

4-bit shift register와 4-bit ring counter, 4-bit updown counter를 FPGA에 연결하여 동작을 확인하였는데 clk의 상승 에지에서 한 개의 상태 변화만이 일어나야 하는데 여러 개의 상태 변화가 한 번에 일어나는 것을 관찰할 수 있었습니다. 이는 노이즈와 접촉 불량 등의 이유 때문으로, 실험을 여러 번 반복하면 각 코드에 대해 예상했던 결과를 얻을 수 있었습니다.

4-bit shift register는 상승 에지 때마다 d로 들어가는 입력이 첫 번째 플립플롭의 출력이 되었고, 첫 번째 플립플롭의 출력은 두 번째 플립플롭의 출력이 되었으며, 두 번째 플립플롭의 출력은 세 번째 플립플롭의 출력, 세 번째 플립플롭의 출력은 네 번째 플립플롭의 출력이 된다는 것을 관찰할 수 있었습니다.

4-bit ring counter는 네 개의 플립플롭의 출력이 0001을 초기값으로 하여 clk의 상승 에지 때마다 0010, 0100, 1000, 0001을 반복하는 카운터를 의미합니다. 실제로 FPGA와 verilog simulation 결과를 확인해보니 0001, 0010, 0100, 1000, 0001을 반복한다는 것을 관찰할 수 있었습니다.

4-bit updown counter는 updown 입력에 따라 up counter로도, down counter로도 활용할 수 있는 카운터입니다. 실제로 updown 입력이 1일 때는 up counter로, 0일 때는 down counter로 동작하도록 Verilog 코딩하여 0부터 15까지의 숫자를 상향하거나 하향하며 출력하게 하였습니다. FPGA와 Verilog simulation 결과를 통해 4-bit updown counter가 올바르게 동작한다는 것을 확인할 수 있었습니다.

1. 추가 이론 조사 및 작성

텍스트이(가) 표시된 사진

자동 생성된 설명본 실험에서 rst를 사용하여 초기에 rst를 0으로 설정해놓고 rst가 1이 되고, clk이 상승 에지이면 네 개의 플립플롭의 출력을 정해주었습니다. 하지만 rst를 사용하지 않고도 initial 문을 이용하여 네 개의 플립플롭의 출력을 정할 수 있었습니다. 다음 <Figure 11>은 4-bit updown counter를 rst를 사용하지 않고 구현한 방법입니다.

<Figure 11> <Figure 7>의 코드를 rst를 사용하지 않고 구현한 코드